

Commercial Hazardous Waste Carbon Regeneration Facilities in the U.S. Permit Status of Furnace or Kiln

Currently Operating Facilities

EPA Region	State	Facility	Location	Year Began Operation	RCRA Interim Status	State Permit	RCRA Permit	Permit Expires	Air Permit or Plan	Comments
3	PA	Envirotrol	Beaver Falls	1978	✓				✓	PA expects to make final RCRA permit decision in 2005.
3	PA	Envirotrol	Darlington	1989		1996	✓	2006	✓	RCRA permit renewal application expected at end of 2005. No major changes expected.
3	PA	Calgon	Neville Island	1950's			2001	2003		PA expects to make a decision on the RCRA permit renewal in 2005. Calgon has also submitted an application for an air permit.
4	KY	Calgon	Catlettsburg	before 1980	✓				✓	KY permit decision pending; is at least 1 ½ years away.
6	OK	Norit	Pryor	1996			1994	2004	✓	Norit has stopped accepting RCRA spent carbon and expects to close in summer 2004.
9	AZ	Westates	Parker	1992	✓					EPA permit decision pending; is at least 1 ½ years away.

Commercial Hazardous Waste Carbon Regeneration Facilities in the U.S. – Permit Status of Furnace or Kiln

Proposed Facilities

EPA Region	State	Facility	Location	Year Began Operation	RCRA Interim Status	State Permit	RCRA Permit	Permit Expires	Air Permit or Plan	Comments
6	NM	Alesca	Carrizozo	not in operation	n/a				✓	Facility not yet operating. NM will request a RCRA permit application.
6	LA	Envirotrol	Louisiana Army Ammunitions Plant	not in operation	n/a					LA is waiting for trial burn plan before it reviews the application. Permit decision is at least 2 years away.
6	LA	Calgon	DeQuincy	not in operation	n/a					LA received a permit application in February 2002, but has delayed reviewing it because of lawsuits. Permit decision is at least 2 years away.

Notes:

All information refers to the permit status of the carbon regeneration furnace or kiln. Hazardous waste storage activities at the various sites may have a different permit status.

“RCRA” = Resource Conservation and Recovery Act. RCRA is a federal statute that governs hazardous waste management. States may become authorized to implement the RCRA program. Subpart X is the part of the RCRA regulations that addresses carbon regeneration units.

Pennsylvania obtained authorization for Subpart X in November 2000. There is some debate between EPA and Pennsylvania whether the Envirotrol Darlington permit, which was issued in 1996 and modified in 1999 and 2001, is RCRA-equivalent or not.

Oklahoma was not authorized for Subpart X in 1994. However, the Norit permit, which was issued in 1994, was jointly signed by Oklahoma and EPA, so the permit is RCRA-equivalent. Oklahoma is currently authorized for Subpart X.

Kentucky, New Mexico, and Louisiana are currently authorized for Subpart X. The New Mexico Environment Department has not yet determined whether Alesca is subject to RCRA permitting requirements.

Westates is on Indian Lands, so EPA R9, not Arizona, has RCRA permit authority.

Compiled August 2001 by Karen Scheuermann, EPA Region 9, (415) 972-3356 based on information obtained from State and US EPA staff.
Revised August & September 2004 by Ruth Le’au and Karen Scheuermann.

Commercial Hazardous Waste Carbon Regeneration Facilities in the U.S. Wastes Treated

Currently Operating Facilities

EPA Region	State	Facility	Location	Design Feedrate (lb/hr)	1993* (tons)	1995* (tons)	1997* (tons)	1999* (tons)	2001* (tons)	Receives Foreign Waste?	Also Receives non-RCRA Waste?	Approved to Receive Superfund Waste?
3	PA	Envirotrol	Beaver Falls	11,000	2,554	3,859	2,655	0	0	unknown	✓	✓
3	PA	Envirotrol	Darlington	13,400	241	694	3,396	5,727	6,363	Mexico Canada	✓	✓
3	PA	Calgon	Neville Island	7,542	5,836	5,529	9,922	5,978	6,012	Canada	✓	✓
4	KY	Calgon	Catlettsburg	6,000	11,262	12,495	7,125	11,967	8,971	no	✓	✓
6	OK	Norit	Pryor	6,000	0	92	1,289	738	1,156	no	✓	✓
9	AZ	Westates	Parker	2,760	1,184	1,971	1,893	2,158	2,073	no	✓	✓

Commercial Hazardous Waste Carbon Regeneration Facilities in the U.S. – Waste Treated

Proposed Facilities

EPA Region	State	Facility	Location	Design Feedrate (lb/hr)	1993* (tons)	1995* (tons)	1997* (tons)	1999* (tons)	2001* (tons)	Receives Foreign Waste?	Also Receives non-RCRA Waste?	Approved to Receive Superfund Waste?
6	NM	Alesca	Carrizozo	1,128,000 gal/yr	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6	LA	Envirotrol	Louisiana Army Ammunitions Plant	24,000 lb/hr	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6	LA	Calgon	DeQuincy	14,370 lb/hr	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Notes:

*RCRA waste received and treated in 1993, 1995, 1997, 1999, and 2001 is taken from the Biennial Reporting System (BRS), on the internet at http://www.epa.gov/enviro/html/brs/brs_query.html. These numbers include only the RCRA waste received at the facilities.

All six operating facilities are permitted to take more or less the same wide range of RCRA wastes, except Norit and Calgon Catlettsburg, which have restrictions for metal-containing wastes.

Approval to receive Superfund wastes is given by EPA under the Off-Site Rule. Facilities which are in compliance with all environmental regulations may receive approval under the Off-Site Rule.

Envirotrol currently does not treat spent carbon at the Beaver Falls facility, but uses the facility for kiln drying of virgin carbon and for storage of spent carbon (both RCRA and non-RCRA) to be processed at the Darlington facility.

An additional 11,000 lbs/hr is permitted at the Envirotrol Darlington facility, but is not built at this time.

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Commercial Hazardous Waste Carbon Regeneration Facilities in the U.S. Equipment

Currently Operating Facilities

EPA Region	State	Facility	Location	Number of Kilns or Furnaces	After-burner	Venturi Scrubber	Wet Scrubber	Dry Scrubber	Wet Electro-stat Precip	De-mister	Absorber Column	Bag-house
3	PA	Envirotrol	Beaver Falls	3 kilns	✓	✓	✓					
3	PA	Envirotrol	Darlington	5 kilns	✓	✓	✓					
3	PA	Calgon	Neville Island	1 furnace	✓			✓				✓
4	KY	Calgon	Catlettsburg	1 furnace	✓							✓
6	OK	Norit	Pryor	1 kiln	✓		✓					✓
9	AZ	Westates	Parker	1 furnace	✓	✓	✓		✓			

Commercial Hazardous Waste Carbon Regeneration Facilities in the U.S. – Equipment

Proposed Facilities

EPA Region	State	Facility	Location	Number of Kilns or Furnaces	After-burner	Venturi Scrubber	Wet Scrubber	Dry Scrubber	Wet Electro-stat Precip	De-mister	Absorber Column	Bag-house
6	NM	Alesca	Carrizozo	3 kilns	✓		✓			✓		
6	LA	Envirotrol	Louisiana Army Ammunitions Plant	2 kilns	✓						✓	
6	LA	Calgon	DeQuincy	3 kilns	✓		✓	✓				✓

Notes:

Wet scrubber includes packed bed scrubbers and packed column scrubbers.

Dry scrubber is an evaporative spray drier and cooler system.

Envirotrol Darlington may place another kiln on line for processing spent carbon from food grade and potable water supply filters. This spent carbon is non-RCRA but would still be subject to permit requirements.

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Commercial Hazardous Waste Carbon Regeneration Facilities in the U.S. Emission Controls

Currently Operating Facilities

EPA Region	State	Facility	Location	Conducted Test of Air Emissions	Tested for Dioxins in Air Emissions	Risk Assessment	Agency Plans to Impose EEE ?	Continuous Monitoring	Comments
3	PA	Envirotrol	Beaver Falls	will test	do not plan to test	planned	not in current permit decision	O ₂	PA has asked for a "mini" risk assessment to focus on metals emissions.
3	PA	Envirotrol	Darlington	yes	yes	planned	no	O ₂	PA has asked for a "mini" risk assessment to focus on metals emissions.
3	PA	Calgon	Neville Island	yes	yes	already conducted	not in Sept. 2001 permit decision	O ₂	PA will consider risk assessment and stack test data from 2001/2002.
4	KY	Calgon	Catlettsburg	will test	plan to test	planned	yes in upcoming permit decision	SO ₂	Will perform risk assessment before permit decision.
6	OK	Norit	Pryor	yes	no	already conducted	n/a	O ₂ CO	
9	AZ	Westates	Parker	will test	plan to test	planned	yes in upcoming permit decision	O ₂ CO	Will perform risk assessment before permit decision.

Commercial Hazardous Waste Carbon Regeneration Facilities in the U.S. – Emission Controls

Proposed Facilities

EPA Region	State	Facility	Location	Conducted Test of Air Emissions	Tested for Dioxins in Air Emissions	Risk Assessment	Agency Plans to Impose EEE ?	Continuous Monitoring	Comments
6	NM	Alesca	Carrizozo	will test	will test	unknown	is considering imposing EEE	O ₂ CO	
6	LA	Envirotrol	Louisiana Army Ammunitions Plant	will test	will test	planned	yes	O ₂ CO	Will perform risk assessment before permit decision.
6	LA	Calgon	DeQuincy	will test	will test	planned	yes	O ₂ CO	

Notes:

Subpart EEE refers to 40 CFR 63 Subpart EEE – National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors, which went into effect in September 1999.

Regarding testing for air emissions: Envirotrol Beaver Falls, Envirotrol Darlington, and Calgon Neville Island will be placed on 5-year stack test cycles.

Envirotrol Darlington has previously tested air emissions and will test again for the upcoming permit decision.

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Commercial Hazardous Waste Carbon Regeneration Facilities in the U.S. Location and Administrative Information

Currently Operating Facilities

EPA Region	State	Facility	Location	Address	County	RCRA ID Number	Latitude	Longitude	Lat/Long Confirmed?
3	PA	Envirotrol	Beaver Falls	24 th and 31 st Streets Beaver Falls, PA 15010	Beaver	PAD980707087	40° 46' 14"	80° 19' 42"	yes
3	PA	Envirotrol	Darlington	118 Park Road Darlington, PA 16115	Beaver	PAD987270725	40° 47' 47"	80° 28' 09"	yes
3	PA	Calgon	Neville Island	200 Neville Road Pittsburgh, PA 15225	Allegheny	PAD000736942	40° 29' 34"	80° 04' 42"	yes
4	KY	Calgon	Catlettsburg	Route 23 South Catlettsburg, KY 41129	Boyd	KYD005009923	38° 21' 07"	82° 35' 55"	yes
6	OK	Norit	Pryor	6 th and Hunt Streets Pryor, OK 74361	Mayes	OKD987072006	36° 14' 15"	95° 17' 12"	yes
9	AZ	Westates	Parker	2523 Mutahar Street Parker, AZ 85344	La Paz	AZD982441263	34° 07' 53"	114° 16' 22"	yes

Commercial Hazardous Waste Carbon Regeneration Facilities in the U.S. – Location and Administrative Information

Proposed Facilities

EPA Region	State	Facility	Location	Address	County or Parish	RCRA ID Number	Latitude	Longitude	Lat/Long Confirmed?
6	NM	Alesca	Carrizozo	approx 2 miles s of intersection of HWs 380 & 54	Lincoln	none yet	33° 37' 44"	105° 52' 28"	yes
6	LA	Envirotrol	Louisiana Army Ammunitions Plant	US Highway 80 Doyline, LA 71023	Webster	LA0213820533	32° 33' 00"	93° 25' 00"	yes
6	LA	Calgon	DeQuincy	301 Air Park Drive DeQuincy, LA 70633	Calcasieu	none yet	30° 26' 21"	93° 28' 05"	yes

Notes:

Latitudes and longitudes are confirmed by State or US EPA staff by visually checking maps.

Alesca Carrizozo and Calgon DeQuincy do not yet have a RCRA ID numbers. Alesca Carrizozo's Air Permit number is AIRS 35-027-0287.

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